RCS & EMP 교육

CST MWS를 이용한 RCS, EMP and Lightning Strikes 해석 실습

일시 : 2017년 9월 19일(화)
장소 : 경기도 분당 "CST한국지사"
주최 : CST한국지사

교육 프로그램

시간	교육내용
10:00~11:00	◘ **Introduction of CST products and Applications**
11:00~12:00	◘ **Built-In Help Mechanisms** ◘ **Basic and Advanced Modeling** Shortcut Icon, View Option, Primitives, Pick Point, Working Coordinate System, Boolean Operations, Basic Modeling, Curve Modeling Tools, Blend and Chamfer, Edges, Loft, Shell Solid or Thicken Sheet, Rotate and Extrude Operation, Transform, Operation, Slice by UV Plane, Align Object, Bend Sheet, History
12:00~13:00	◘ **Lunch**
13:00~14:30	◘ **Workflow Example1 : EMP and Lightning strikes analysis (CST MWS Time domain solver)** ▪ **Modeling, Simulation Setting** - Unit, Background Materials, Boundary and Symmetry Conditions - Direction of Plane wave, Meshing, Field monitors - Solver Setting (Time domain solver) ▪ **Result Overview - transient response , 3D Electric field distributions, Surface current distributions**
14:30~15:00	◘ **Investigation of RCS Simulation** ▪ **Simulation Setting** - Frequency Range setting, Boundary Condition - Direction of the incident wave, Meshing - Solver Setting (Time domain solver) ▪ **Parameter sweep, Post-processing** ▪ **Monostatic RCS, Bistatic RCS, Broadband RCS** ▪ **Comparison of RCS between Theoretical and Simulation**
15:30~16:00	◘ **Workflow Example 3 : Monostatic RCS of a aircraft (CST MWS Integral equation solver, Asymptotic solver)** ▪ **Modeling, Simulation Setting** - CAD Import, Field Monitor - Solver Setting (Integral equation solver, Asymptotic solver) ▪ **Result Overview - Monostatic RCS** ▪ **Parameter Sweep & Optimizer** ▪ **Broadband RCS Simulation**
16:00~16:30	◘ **Workflow Example 4 : RCS of aircraft coated with Radar Absorbent Material (RAM) (CST MWS Integral equation solver, Asymptotic solver)** ▪ **Modeling, Simulation Setting** - CAD Import, Field Monitor - Define Coated material - Solver Setting (Integral equation solver, Asymptotic solver) ▪ **Result Overview - Bistatic RCS, Monostatic RCS** ▪ **Parameter Sweep & Optimizer**
16:30~17:00	◘ **Antenna Magus, Acceleration Techniques Overview, Antenna Features & Post-Processing, Macro, Project Templates, Open Discussion**

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